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RAW SEQUENCE LISTING

DATE: 12/27/2002

PATENT APPLICATION: US/09/820,598

TIME: 14:16:10

Input Set : A:\57477-A-PCT-US.txt

Output Set: N:\CRF4\12272002\I820598.raw

3 <110> APPLICANT: Thomas M. Jessell et al.
 5 <120> TITLE OF INVENTION: GENE ENCODING MNR2 AND USES THEREOF
 7 <130> FILE REFERENCE: 0575/57477-A-PCT-US/JPW/SHS/MVM
 9 <140> CURRENT APPLICATION NUMBER: 09/820,598
 10 <141> CURRENT FILING DATE: 2001-03-29
 12 <160> NUMBER OF SEQ ID NOS: 4
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1

17 <211> LENGTH: 300

18 <212> TYPE: PRT

19 <213> ORGANISM: chick embryo

21 <400> SEQUENCE: 1

ENTERED

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 27 Leu Ala Glu Lys Pro Pro Arg Ser Ala Ser Pro Pro Gly Leu Ser Pro
 28 20 25 30
 31 Ala Gly Ser Pro Gly Pro Ala Gly Arg Thr Asp Thr Pro Ser Pro Arg
 32 35 40 45
 35 Ala Pro Gln Ala Ala Thr Pro Leu Gly Pro Ala Gly Phe Val Pro Lys
 36 50 55 60
 39 Pro Gly Leu Leu His Leu Pro Gly Pro Gly Leu Gly Thr Leu Pro Ala
 40 65 70 75 80
 43 Leu Tyr Pro Pro Ala Val Tyr Pro Leu Pro Ala Leu Gly Gly Gln His
 44 85 90 95
 47 Ala Ala Phe Ala Tyr Thr Ala Phe Pro Gln Leu Pro Pro Pro Gly Ala
 48 100 105 110
 51 Glu His Leu Lys Ala Ala Val Ala Gly Ser Phe Pro Leu Glu Gln Trp
 52 115 120 125
 55 Ile Arg Ala Gly Met Leu Val Pro Arg Leu Ser Asp Phe His Ala Thr
 56 130 135 140
 59 Pro Gln Ser Ala Leu Met Gly Lys Ser Arg Arg Pro Arg Thr Ala Phe
 60 145 150 155 160
 63 Thr Ser Gln Gln Leu Leu Glu Leu Glu Asn Gln Phe Lys Leu Asn Lys
 64 165 170 175
 67 Tyr Leu Ser Arg Pro Lys Arg Phe Glu Val Ala Thr Ser Leu Met Leu
 68 180 185 190
 71 Thr Glu Thr Gln Val Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp
 72 195 200 205
 75 Lys Arg Ser Arg Lys Ala Lys Glu Gln Gly Met Ala Val Glu Pro Glu
 76 210 215 220
 79 Lys Pro Arg Gly Leu Gly Lys Ala Asp Glu Ser Leu Leu Pro Ser Gln
 80 225 230 235 240
 83 Pro Gln Gly Gln Ala Gly Asp Ser Pro Glu Phe Val Gly Cys Ser Pro

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84          245          250          255
87 Gly Thr Gly Phe Leu Cys Arg Ser Ala Glu Leu Gly Tyr Asp Pro Asp
88          260          265          270
91 Ser Ser Cys Ser Gly Gly Glu Glu Asp Glu Glu Glu Glu Asp Asp Gly
92          275          280          285
95 Met Asp Thr Ala Glu Arg Lys Met Gly Ser Val Leu
96          290          295          300
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100 <211> LENGTH: 356
101 <212> TYPE: DNA
102 <213> ORGANISM: chick embryo
104 <400> SEQUENCE: 2
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109 atggacactg cggagaggaa gatgggctct gtgttgtaga gaggttcccg ggtgaggagt      180
111 tggaccagtc tcggctggca gacacagact gtgcccatgt gcagcgtggg ggctgagggg      240
113 agcctgcccc cccctcctt taacttatgt gtgtttggag tctatttaat gtgtaattat      300
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120 <212> TYPE: PRT
121 <213> ORGANISM: chick embryo
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129 Pro Pro Lys Ala Ala Ala Gln Ser Ala Pro Leu Ala Leu Val Thr Gly
130          20          25          30
133 Gly Ser Gly Gly Gly Ser Pro Pro Ser Ser Ser Ser Ser Ser Ser Ser
134          35          40          45
137 Ser Ser Ser Ser Ser Ser Glu Leu Pro Ala Asp Cys Pro Arg Thr Asp
138          50          55          60
141 Ser Pro Ser Pro Pro Arg Leu Leu Pro Ala His Cys Ala Leu Leu Pro
142 65          70          75          80
145 Lys Ala Ala Phe Leu Gly Gly Gly Gly Pro Gly Gly Gly His Pro Gln
146          85          90          95
149 His His Ala Leu Gly Leu His Pro Ala Gly Pro Gly Gly Pro Gly Leu
150          100          105          110
153 Tyr Gly His Pro Val Tyr Gly Tyr Pro Ala Leu Gly Gly Gln His Pro
154          115          120          125
157 Ala Leu Ser Tyr Ser Tyr Ser Gln Val Gln Gly Ala His Pro Ala His
158          130          135          140
161 Pro Ser Ala Asp Pro Ile Lys Leu Ser Ala Gly Thr Phe Gln Leu Asp
162 145          150          155          160
165 Gln Trp Leu Arg Ala Ser Thr Ala Gly Met Ile Leu Pro Lys Met Pro
166          165          170          175
169 Asp Phe Gly Ser Gln Ala Gln Ser Asn Leu Leu Gly Lys Cys Arg Arg
170          180          185          190
173 Pro Arg Thr Ala Phe Thr Ser Gln Gln Leu Leu Glu Leu Glu His Gln
174          195          200          205

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177 Phe Lys Leu Asn Lys Tyr Leu Ser Arg Pro Lys Arg Phe Glu Val Ala
178      210      215      220
181 Thr Ser Leu Met Leu Thr Glu Thr Gln Val Lys Ile Trp Phe Gln Asn
182 225      230      235      240
185 Arg Arg Met Lys Trp Lys Arg Gln Lys Lys Ala Lys Glu Gln Ala Ala
186      245      250      255
189 Gln Glu Ala Glu Asn Glu Lys Gly Gly Gly Gly Glu Asp Lys Ser
190      260      265      270
193 Gly Pro Arg Glu Leu Leu Leu Pro Gly Pro Glu Lys Gly Gly Gly Arg
194      275      280      285
197 Arg Leu Arg Glu Leu Pro Asp Ser Glu Pro Glu Asp Glu Glu Glu Glu
198      290      295      300
201 Glu Glu Glu Glu Glu Glu Ala Glu Ala Gly Arg Cys Cys Pro Tyr His
202 305      310      315      320
205 Ser Ser Asp Cys Ser Glu Ala Asp Glu Glu Asp Ser Gln Ser Gly Gly
206      325      330      335
209 Arg Pro Gly Ala Pro Pro Pro Pro Pro Ala Gln Pro Gln
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213 <210> SEQ ID NO: 4

214 <211> LENGTH: 1513

215 <212> TYPE: DNA

216 <213> ORGANISM: chick embryo

218 <400> SEQUENCE: 4

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223 tcaccggcgg ctccggcggc ggcagccctc cgtcttcgtc gtccctctcg tcgtcgctgt 180
225 cctcctcttc ttccgagctc cccgcccact gccgcgcac cgacagcccc tctccgcctc 240
227 gcctgctgcc cgcgcactgc gcgctgctgc ccaaagccgc ctctctgggc ggggggggac 300
229 ccggggggcg ccaccgcag caccacgcc tggggctgca cccgcgggg ccgggcccgc 360
231 cgggcctcta cgggcacccg gtgtacggct accggcggtt gggcgggcag caccggcggc 420
233 tctcctattc ctattcgcaa gtgcaggag cgcacccgc gcacccctcc gccgaccca 480
235 tcaagctgag cgccggcacc tttagctgg accagtggct gcgggcgagc acggccggca 540
237 tgatcctgcc caaatgccc gacttcggct cttaggcgca gtccaacctg ctggggaagt 600
239 gccggcgccc gcgcaccgcc ttcaccagcc agcagctgct ggagctggag caccagttca 660
241 aactcaacaa gtacctctcc cggcccaagc gcttcgaggt ggccacgtcg ctgatgtca 720
243 ccgagacgca ggtgaagatt tggttccaga accgcgcgat gaaatggaag cgccagaaaa 780
245 aggcgaagga gcaggcggcg caggaggcag agaacgagaa aggaggagga ggaggagagg 840
247 acaaaagcgg gccgagggaa ctgctgctgc ccggcccga gaaaggcggc gggaggcggc 900
249 tgaggagct gcccgacagc gagcccagg acgaggagga ggaagaagag gaggaagagg 960
251 aggcggaggc cgggcggtgc tgcccctacc actcctccga ctgctccgag gcggacgagg 1020
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255 gagccacgg ccgcccgcgc ggggcggccc ccggcaacgg agcctcctgg ccccgctctc 1140
257 catcccgctc tcccatccct ccctgctcgg agggggacgc ggaaagggat ctcccgctctg 1200
259 ccgagcggga gggaggattc acacagtgtt attattgact gagaagcggc cagcacttga 1260
261 gccccctcc ccgcccgcgc ctatcggaac cgtttccttc ttaccatata tcgggaaaag 1320
263 tgtttatgtc atgaacgtta aaactgctgc agatctcaat actgtcttta ttttgtatat 1380
265 cctatttata aaaaaggcaa aatgaattcc tctacttatg catgctaaat tattaccag 1440
267 ccccttccgc ctgaggtggg ggggaggaat ataaataaag agcgttttgt actgtgaaaa 1500
269 aaaaaaaaaa aaa 1513

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/820,598

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Input Set : A:\57477-A-PCT-US.txt

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